



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION

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GAF

1 Campus Drive  
Parsippany, NJ 07054

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

### DESCRIPTION: GAF EverGuard® TPO Single Ply Roofing Systems over Steel Decks.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 14-0128.01 and consists of pages 1 through 62.

The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 14-0220.08  
Expiration Date: 07/13/18  
Approval Date: 06/25/15  
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## ROOFING SYSTEM APPROVAL

**Category:** Roofing  
**Sub-Category:** Single Ply Roofing  
**Material:** TPO  
**Deck Type:** Steel  
**Maximum Design Pressure:** -105 psf.

### TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
EverGuard® TPO	Various	ASTM D6878 TAS 131	Thermoplastic olefin reinforced single-ply membrane.
EverGuard Extreme® TPO	Various	ASTM D6878 TAS 131	Thermoplastic olefin reinforced single-ply membrane designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO FB Ultra	Various	ASTM D6878 TAS 131	Thermoplastic olefin reinforced, fleece back single-ply membrane
EverGuard Extreme® TPO FB Ultra	Various	ASTM D6878 TAS 131	Thermoplastic olefin reinforced fleece back single-ply membrane designed for advanced protection against heat aging and UV degradation.
EverGuard® #1121 Bonding Adhesive	5 gallons	Proprietary	Solvent based adhesive for fully adhered TPO systems and membrane flashing.
EverGuard® WB181 Bonding Adhesive	5 gallons	Proprietary	A water based adhesive for use with smooth TPO, fleece backed TPO and fleece backed PVC membranes.
EverGuard® Low VOC TPO Bonding Adhesive	5 gallons	Proprietary	Low VOC adhesive for TPO fully adhered systems and flashings.
LRF Adhesive M	Dual component cylinders	Proprietary	Two-part VOC free polyurethane foam adhesive.
LRF Adhesive O	Dual component cylinders	Proprietary	Two-part VOC free polyurethane foam adhesive.
EverGuard® TPO Coated Metal	4' x 10' sheets	Proprietary	24 gauge steel with a 25 mil thick GAF TPO for edge detailing.
EverGuard Extreme® TPO Coated Metal	4' x 10' sheets	Proprietary	24 gauge steel with a 25 mil thick GAF TPO for edge detailing and designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO Cover Tape	6" x 100' 10" x 100'	Proprietary	GAF TPO laminated to white butyl tape primarily used for edge metal details.



<b>Product</b>	<b>Dimensions</b>	<b>Test Specification</b>	<b>Product Description</b>
EverGuard® TPO Cover Tape Heat-Weld	6" x 100'	Proprietary	Flashing strip manufactured from unreinforced GAF TPO laminated to a six inch wide strip, half the strip with a self-adhered side and half the strip with a heat-weldable edge; used for edge metal details.
EverGuard Extreme® TPO Cover Tape Heat-Weld	6" x 100'	Proprietary	Flashing strip manufactured from unreinforced GAF TPO designed for advanced protection against heat aging and UV degradation. Laminated to a six inch wide strip, half the strip with a self-adhered side and half the strip with a heat-weldable edge; used for edge metal details.
EverGuard® TPO Detailing Membrane	24" x 50'	Proprietary	Unreinforced flashing material manufactured from GAF TPO.
EverGuard Extreme® TPO Detailing Membrane	24" x 50'	Proprietary	Unreinforced flashing material manufactured from GAF TPO designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO Flashing Strip	Various	Proprietary	Reinforced flashing membrane manufactured from GAF TPO.
EverGuard Extreme® TPO Flashing Strip	Various	Proprietary	Reinforced flashing membrane manufactured from GAF TPO designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO Pourable Sealer Pocket	9" x 6" x 4" oval with 3" base flange	Proprietary	Pourable sealer pocket is molded with GAF TPO compound to a nominal 70 mil thickness designed for waterproofing irregular shaped roof penetrations.
EverGuard Extreme® TPO Pourable Sealer Pocket	9" x 6" x 4" oval with 3" base flange	Proprietary	Pourable sealer pocket is molded from GAF TPO designed for advanced protection against heat aging and UV degradation compounded to a nominal 70 mil thickness designed for waterproofing irregular shaped roof penetrations.
EverGuard® TPO RTA (Roof Transition Anchor) Strip™	6" x 100' roll	Proprietary	Reinforced GAF TPO membrane with pressure sensitive adhesive primarily used to secure membrane transitions from the field to vertical surfaces.

<b>Product</b>	<b>Dimensions</b>	<b>Test Specification</b>	<b>Product Description</b>
EverGuard® TPO Split Pipe Boot	1" - 2" 3" - 5" 6" - 8"	Proprietary	Reinforced GAF TPO membrane split to accommodate most common pipes and conduits.
EverGuard Extreme® TPO Split Pipe Boot	1" - 2" 3" - 5" 6" - 8"	Proprietary	Reinforced GAF TPO designed for advanced protection against heat aging and UV degradation split to accommodate most common pipes and conduits.
EverGuard® TPO Square Tube Wrap	4" x 4" 4" x 6" 6" x 6"	Proprietary	Reinforced GAF TPO with split design overlap to be wrapped around square or rectangular tubing.
EverGuard Extreme® TPO Square Tube Wrap	4" x 4" 4" x 6" 6" x 6"	Proprietary	Reinforced GAF TPO designed for advanced protection against heat aging and UV degradation with split design overlap to be wrapped around square or rectangular tubing.
EverGuard® TPO Corner Curb Wrap	Various	Proprietary	Corners fabricated from reinforced GAF TPO.
EverGuard Extreme® TPO Corner Curb Wrap	Various	Proprietary	Corners fabricated from reinforced GAF TPO designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO Scupper	4" x 6" x 12" 8" x 10" x 12"	Proprietary	Scupper manufactured from coated metal and unreinforced GAF TPO.
EverGuard® TPO T-Joint Cover Patch	100 patches per box	Proprietary	T-Joint patch manufactured from unreinforced GAF TPO.
EverGuard Extreme® TPO T-Joint Cover Patch	100 patches per box	Proprietary	T- Joint patch manufactured from unreinforced GAF TPO designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO Vent	2 vents per carton	Proprietary	Vent manufactured from reinforced GAF TPO membrane and galvanized steel.
EverGuard® TPO T-Top Vent	4" or 6"	Proprietary	Vent manufactured from reinforced GAF TPO membrane and galvanized steel.
EverGuard® TPO Walkway Rolls	Rolls 1/8" x 30" x 50'	Proprietary	Standard duty TPO walkway rolls.
EverGuard® TPO Inside Corner	6" x 6" x 5 1/4"	Proprietary	Inside corner manufactured from unreinforced GAF TPO.

<b>Product</b>	<b>Dimensions</b>	<b>Test Specification</b>	<b>Product Description</b>
EverGuard Extreme® TPO Inside Corner	6" x 6" x 5¼"	Proprietary	Inside corner manufactured from unreinforced GAF TPO designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO Universal Corners	Various	Proprietary	Universal corners manufactured from GAF TPO that are heat seamable and designed to accommodate both inside and outside corners of base and curb flashings manufactured from GAF TPO.
EverGuard Extreme® TPO Universal Corners	Various	Proprietary	Universal corners manufactured from GAF TPO that are heat seamable and designed to accommodate both inside and outside corners of base and curb flashings manufactured from GAF TPO designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO Vent Boot	1" - 6" o.d. 6 pcs. crtn.	Proprietary	Vent pipe boot molded from GAF TPO and supplied with stainless steel clamping rings.
EverGuard Extreme® TPO Vent Boot	1" - 6" o.d. 6 pcs. crtn.	Proprietary	Vent pipe boot molded from GAF TPO designed for advanced protection against heat aging and UV degradation and supplied with stainless steel clamping rings.
EverGuard® TPO Expansion Joint Cover	Various	Proprietary	Low profile joint cover manufactured from reinforced GAF TPO.
EverGuard® TPO Cut Edge Sealant	1 quart squeeze tube	Proprietary	Clear solvent based sealant for TPO cut edges.
EverGuard® Low VOC Cut Edge Sealant	1 quart squeeze tube	Proprietary	Low VOC clear solvent based sealant for TPO cut edges.
EverGuard® TPO Drain	Various	Proprietary	Spun aluminum drain pre-flashed with unreinforced GAF TPO.
EverGuard® TPO Seam Cleaner	1 gallon	Proprietary	Solvent based seam cleaner.
EverGuard® TPO Standing Seam Tape	6"	Proprietary	A white butyl cover tape.
EverGuard® TPO Standing Seam Profile	10' length 1 ½" base 1 ¼" vertical rib	Proprietary	Accessory applied over GAF TPO roofing systems to simulate a standing seam metal roof.
EverGuard® TPO Fluted Corner	8" diameter nominal .05" non-reinforced	Proprietary	Flashing for outside corners of base and curb flashing manufactured from non-reinforced GAF TPO.

<b>Product</b>	<b>Dimensions</b>	<b>Test Specification</b>	<b>Product Description</b>
EverGuard Extreme® TPO Fluted Corner	8" diameter nominal .05" non-reinforced	Proprietary	Flashing for outside corners of base and curb flashing manufactured from non-reinforced GAF TPO designed for advanced protection against heat aging and UV degradation.
Topcoat® Membrane	1, 5 or 55 gallons	ASTM D6083	Water-based elastomeric coating
Topcoat® TPO Red Primer	1 gallon	Proprietary	Solvent-based primer for TPO membranes

## **APPROVED INSULATIONS:**

<b>TABLE 2</b>		
<b>Product Name</b>	<b>Product Description</b>	<b>Manufacturer (With Current NOA)</b>
EnergyGuard™ Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ HD Polyiso Insulation	High density polyisocyanurate foam insulation	GAF
EnergyGuard™ HD Plus Polyiso Insulation	High density polyisocyanurate foam insulation	GAF
EnergyGuard™ Ultra Polyiso Insulation	Glass-faced polyisocyanurate foam insulation.	GAF
EnergyGuard™ Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ Ultra Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RA Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RA Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RH Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RH Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RH HD Polyiso Insulation	High density polyisocyanurate foam insulation	GAF
EnergyGuard™ RN Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RN Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ Perlite Roof Insulation	Perlite insulation board	GAF
EnergyGuard™ Perlite Recover Board	Perlite recover board	GAF
Securock® Gypsum-Fiber Roof Board	Gypsum board	USG Corporation
Securock® Glass-Mat Roof Board	Glass faced gypsum board	USG Corporation
Structodek® High Density Fiber Board Roof Insulation	High Density Fiber Board	Blue Ridge FiberBoard, Inc.
DensDeck® Roof Board	Gypsum board	Georgia-Pacific Gypsum
DensDeck® Prime® Roof Board		LLC



## APPROVED FASTENERS:

TABLE 3				
Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Drill-Tec™ #12 Fastener	Phillips head, modified buttress thread, pinch point, carbon steel fastener for use in steel or wood decks. With CR-10 coating. Available with a pinch point or drill point.	#12 x 8" max. length, #3 Phillips head	GAF
2.	Drill-Tec™ #14 Fastener	Truss head, self-drilling, pinch point, high thread fastener for use in steel, wood or concrete decks.	#14 x 16" max. length, #3 Phillips head.	GAF
3.	Drill-Tec™ XHD Fastener	Truss head, self-drilling, pinch point, high thread fastener for use in wood or steel decks.	#15 x 16" max. length, #3 Phillips head	GAF
4.	Drill-Tec™ SXHD	Truss head, self-drilling, drill point, high thread fastener for use in steel decks.	#21 x 16" max. length, #3 Phillips head	GAF
5.	Drill-Tec™ 2-3/8 in. Barbed XHD Plate	Round galvanized steel stress plates for use with Drill-Tec™ fasteners.	2-3/8" round	GAF
6.	Drill-Tec™ 2 in. Double Barbed XHD Plate	Round galvanized steel stress plates for use with Drill-Tec™ fasteners.	2" round	GAF
7.	Drill-Tec™ 2-3/4 in. Barbed SXHD Plate	Round galvanized steel stress plates for use with Drill-Tec™ fasteners.	2-3/4" round	GAF
8.	Drill-Tec™ 3" Standard Steel Plate	Galvalume® coated steel stress plate for use with approved Drill-Tec™ fasteners.	3" round	GAF
9.	Drill-Tec™ AccuTrac® Flat Plate	A2-SS aluminized steel plate for use with Drill-Tec™ fasteners.	3" square; .017" thick	GAF
10.	Drill-Tec™ 3" Steel Plate	Round Galvalume® steel stress plate with reinforcing ribs and recessed for use with Drill-Tec™ fasteners.	3" round	GAF

## APPROVED FASTENERS:

TABLE 3				
Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
11.	Drill-Tec™ 3" Ribbed Galvalume Plate (Flat)	Round Galvalume® plated steel stress plate with reinforcing ribs for use with Drill-Tec™ fasteners.	3" Round	GAF
12.	Drill-Tec™ ASAP 3S	Drill-Tec™ #12 Fastener with Drill-Tec™ 3" Standard Steel Plate.	See components	GAF
13.	Drill-Tec™ RhinoBond® TPO XHD Plates	Gold primer coated plate for use with TPO membranes.	3" round	GAF
14.	Drill-Tec™ AccuTrac® Recessed Plate	Galvalume® steel plate with recess for use with Drill-Tec™ fasteners.	3" square; .017" thick	GAF
15.	Drill-Tec™ RhinoBond® TPO XHD Tread Safe Plate	Round, coated Galvalume® plate (Gold primer coating) used for TPO membranes.	3" Round	GAF
16.	Drill-Tec™ RhinoBond® TPO SXHD Plate	Gold primer coated plate for use with TPO membranes.	3" Round	GAF
17.	Drill-Tec™ Eyehook AccuSeam Plate	Round Galvalume® steel plate for use with Drill-Tec™ fasteners.	2-3/8" Round	GAF



**EVIDENCE SUBMITTED:**

<b>Test Agency/Identifier</b>	<b>Name</b>	<b>Report</b>	<b>Date</b>
UL LLC	R10689	UL 790	03/14/13
	R1306	UL 790	05/22/13
FM Approvals	FM 4470	3003617	12/20/99
	FM 4470	3012721	02/11/04
	FM 4470	3013861	05/21/04
	FM 4470	3014955	01/28/05
	FM 4470	3015029	02/19/04
	FM 4470	3015578	05/12/04
	FM 4470	3020681	09/01/05
	FM 4470	3022136	03/17/05
	FM 4470	3023458	07/18/06
	FM 4470	3026964	07/25/07
	FM 4470	3029832	05/11/07
	FM 4470	3030813	11/05/07
	FM 4470	3032811	12/11/08
	FM 4470	3032856	11/24/08
	FM 4470	3033135	11/24/08
	FM 4470	3034394	02/27/09
	FM 4470	3034749	10/16/08
	FM 4470	3035658	09/16/09
	FM 4470	3036141	08/10/09
	FM 4470	3036614	06/09/09
	FM 4470	3038278	11/18/11
	FM 4470	3038318	12/10/10
	FM 4470	3040234	02/23/11
	FM 4470	3041535	06/08/11
	FM 4470	3041685	03/24/11
	FM 4470	3041769	09/27/12
	FM 4470	3042905	01/10/12
	FM 4470	3044862	05/11/12
	FM 4470	3045166	07/24/12
	FM 4470	3045863	08/16/12
	FM 4470	3046054	12/21/12
	FM 4470	3046081	02/13/13
	FM 4470	3046328	09/13/12
	FM 4470	3047636	08/08/13
	FM 4470	3048122	04/29/13
	FM 4470	3055411	04/14/15
	FM 4470	3048066	12/13/13
	FM 4470	3051973	08/06/14
Atlantic & Caribbean Roof Consulting, LLC	TAS 114-J	06-035	10/18/06
Exterior Research & Design, LLC	TAS 114-J	02843.02.05-06	02/02/05



Test Agency/Identifier	Name	Report	Date
PRI Construction Materials Technologies LLC	ASTM C1289/ASTM D1622	GAF-409-02-01 / GAF-417-02-01	05/28/13
	ASTM C1289/ASTM D1622	GAF-411-02-01	05/02/13
	ASTM C1289/ASTM D1622	GAF-412-02-01	05/02/13
	ASTM D6878/TAS 131	GAF-421-02-01	10/22/13
	ASTM D6878/TAS 131	GAF-422-02-01	10/29/13
	ASTM D6878/TAS 131	GAF-424-02-01	11/11/13
	ASTM D6878/TAS 131	GAF-425-02-01	11/11/13
	ASTM D1622	GAF-369-02-01	10/22/12
	TAS 117	GAF-435-02-01	01/29/14
	TAS 114	GAF-435-02-07	01/29/14
	TAS 114	GAF-435-02-08	01/29/14
	TAS 114	GAF-435-02-09	01/29/14
	TAS 114	GAF-435-02-10	01/29/14
	TAS 114	GAF-435-02-11	01/29/14
	TAS 114	GAF-462-02-02	11/18/13
	ASTM C1289/ASTM D1622	GAF-464-02-01	02/06/14
	ASTM D6083	GAF-499-02-01	03/12/14
	TAS 114	GAF-506-02-08	03/06/14
	TAS 114	GAF-506-02-10	03/06/14
	TAS 114	GAF-506-02-12	04/14/14
	TAS 114	GAF-506-02-13	04/14/14
	TAS 114	GAF-506-02-14	04/14/14
	Proprietary	GAF-508-02-01	03/12/14
	TAS 114	GAF-510-02-02	04/08/14
	TAS 114	GAF-510-02-04	04/08/14
	TAS 114	GAF-511-02-02	04/08/14
	TAS 114	GAF-525-02-02	06/23/14
	TAS 114	GAF-525-02-03	06/23/14
	TAS 114	GAF-532-02-01	08/22/14
	TAS 114	GAF-532-02-02	04/17/15



## APPROVED ASSEMBLIES:

**Membrane Type:** TPO

**Deck Type 2I:** Steel, Insulated

**Deck Description:** Minimum 22 gauge, Grade 33, Type B-WR steel deck secured to minimum ¼ in. thick steel structural supports spaced 6 ft. o.c. with ICH Traxx/5 fasteners 6 in. o.c. along the center of the supports. Deck side laps are secured 24 in. o.c. with ICH Traxx/1 fasteners.

**System Type B(1):** One or more layers of insulation mechanically secured to roof deck. The top layer of insulation is adhered. The membrane is subsequently fully adhered to the top layer of insulation.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Thermal Barrier:** Minimum 5/8" DensDeck® Roof Board, DensDeck® Prime® Roof Board, minimum 1/2" Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board or minimum 3/4" EnergyGuard™ Perlite Roof Insulation loose laid on steel deck

One or more layers of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation Minimum 2" thick	1, 2, 8, 9, 10, 11, 12, 14	1.33 ft <sup>2</sup>

**Note:** The base layer of insulation is fastened through the optional thermal barrier (when present) into the steel deck with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
Securock® Gypsum-Fiber Roof Board Minimum 1/4" thick	N/A	N/A

**Note (LRF Adhesive M is NOT for use with EnergyGuard RH Polyiso Insulation base layer):** Top insulation layer is adhered with OlyBond® 500, OlyBond® 500 Green, LRF Adhesive M applied in 0.75"-1" wide ribbons spaced 12" o.c. or with GAF 2-Part Roofing Adhesive applied in 2.5" wide ribbons spaced 12" o.c. Insulation panels listed as base layer only shall be used only as base layers with a layer of approved top layer insulation installed as the final membrane substrate.

**Membrane:**

EverGuard® TPO or EverGuard® Extreme® TPO adhered with EverGuard® #1121 Bonding Adhesive at a total rate of 1.67 gal./sq. per manufacturer's installation instructions. Half of the adhesive is applied to the substrate and the other half is applied to the back surface of the roof cover. The top surface of the membrane is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO or EverGuard® Extreme® TPO fully adhered with EverGuard® Low VOC TPO Bonding Adhesive applied at a total rate of 0.91 gal./sq. per manufacturer's installation instructions. Half of the adhesive is applied to the substrate and the other half is applied to the back surface of the roof cover. The top surface of the membrane is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO or EverGuard® Extreme® TPO fully adhered with EverGuard® WB 181 Bonding Adhesive applied at a total rate of 0.83 gal./sq. per manufacturer's installation instructions. One quarter of the adhesive is applied to the back of the roof cover and three quarters is applied to the substrate. The top surface of the membrane is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered with EverGuard® WB 181 Bonding Adhesive applied at a total rate of 0.83 – 1.0 gal./sq. per manufacturer's installation instructions. All of the adhesive is applied to the substrate and the membrane is installed into the wet adhesive as soon as practical (do not allow adhesive to string or dry). The top surface of the membrane is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered with LRF Adhesive M or LRF Adhesive O applied in 0.75 - 1.0 in. wide ribbons spaced 4 in. o.c. for full coverage per manufacturer's installation instructions. The top surface of the membrane is rolled per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

**Membrane:** EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered  
**(Continued)** with GAF 2-Part Roofing Adhesive applied in a spatter pattern at 3.75 lbs./sq. per manufacturer's installation instructions. The top surface of the membrane is rolled per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

**Surfacing:** **Chosen components must be applied in accordance with manufacturer's**  
**(Optional)** **application instructions. Any coating listed below used as a surfacing must be**  
**listed within a current NOA.**

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** -60 psf. (See General limitation #7)

**Membrane Type:** TPO

**Deck Type 2I:** Steel, insulated

**Deck Description:** Min. 22 gauge steel deck.

**System Type B(2):** One or more layers of insulation mechanically secured to roof deck. The top layer of insulation is adhered. The membrane is subsequently fully adhered to the top layer of insulation.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Thermal Barrier:** Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime® Roof Board, 1/2" (Optional) Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board or 3/4" EnergyGuard™ Perlite Roof Insulation loose laid on steel deck.

One or more layers of the following insulations.

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation Minimum 1.5" thick	1, 2, 9, 10, 11, 12, 14	1: 2 ft <sup>2</sup>
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation Minimum 2" thick	1, 2, 9, 10, 11, 12, 14	1: 2.9 ft <sup>2</sup>

**Note:** Base layer of insulation is fastened through the optional thermal barrier (when present) into the steel deck using the fasteners and density listed above. Insulation panels listed are 48 x 96 in.; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

<b>Middle Insulation Layer (Optional)</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
EnergyGuard™ Polyiso Insulation, EnergyGuard™ Tapered Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RH Tapered Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ RN Tapered Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation, EnergyGuard™ Ultra Tapered Polyiso Insulation Minimum 0.5" thick	N/A	N/A

**Note:** Optional middle insulation layer is adhered with Olybond 500®, Olybond 500® Green or LRF Adhesive M in 0.75 in. ribbons spaced in 12 in. o.c. or GAF 2-Part Roofing Adhesive applied in 2.5" wide ribbons spaced 12 in. o.c. The base layer or top layer of insulation of multi-layer constructions may be either tapered or flat profiled. Intermediate layers of insulation are flat profiled. Total insulation may not exceed 12 inches.

<b>Top Insulation Layer (Optional)</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
DensDeck® Prime® Roof Board or Securock® Gypsum-Fiber Roof Board Minimum 0.25" thick	N/A	N/A



**Note: Optional top insulation layer is adhered with Olybond 500®, Olybond 500® Green or LRF Adhesive M applied in 0.75 – 1.0 in. wide ribbons spaced in 12 in. o.c. or with GAF 2-Part Roofing Adhesive applied in 2.5” wide ribbons spaced 12 in. o.c.**

**Membrane:** EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra adhered in LRF Adhesive M or LRF Adhesive O applied in 0.75 - 1.0 in. wide ribbons spaced 4 in. o.c. for full coverage. The top surface of the membrane is rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3” wide membrane side laps are sealed with minimum 1-1/2” wide heat welds for automatic machine welding. Weld width shall be minimum 2” for hand welding.

OR

EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra adhered in GAF 2-Part Roofing Adhesive applied in a spatter pattern at 3.75 lbs./sq. for full coverage. The top surface of the membrane is rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3” wide membrane side laps are sealed with minimum 1-1/2” wide heat welds for automatic machine welding. Weld width shall be minimum 2” for hand welding.

**Surfacing:** **Chosen components must be applied in accordance with manufacturer's application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.**

**(Optional)**

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** -45 psf. (See General limitation #9)

**Membrane Type:** TPO

**Deck Type 2I:** Steel, insulated

**Deck Description:** Min. 22 gauge, grade 80, Type B steel deck attached 6" o.c. to steel supports spaced 6 ft. o.c. using Traxx/5 screws. Deck side laps are attached 30" o.c. using Traxx/1screws.

**System Type C(1):** All layers of insulation are mechanically attached to roof deck. Membrane is subsequently fully adhered to insulation.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Thermal Barrier:** Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime® Roof Board, 1/2" (Optional) Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board or 3/4" EnergyGuard™ Perlite Roof Insulation loose laid on steel deck.

One or more layers of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, Minimum 2" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
Securock® Gypsum-Fiber Roof Board Minimum 1/4" thick	2, 8, 10, 11	1:1.33 ft²

**Note: Base insulation is loose laid. Top layer of insulation is fastened through the base layer, the optional vapor retarder and thermal barrier (when present) into the steel deck; see top insulation layer for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Membrane:** EverGuard® TPO or EverGuard® Extreme® TPO is fully adhered in EverGuard® #1121 Bonding Adhesive applied at a total rate of 2.0 gal./sq. per manufacturer's installation instructions. Half of the adhesive is applied to the substrate and the other half is applied to the back surface of the roof cover. The top surface of the membrane is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1-1/2" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

**Surfacing:** Chosen components must be applied in accordance with manufacturer's (Optional) application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design Pressure:** -105 psf. (See General limitation #7)





**Membrane Type:** TPO

**Deck Type 2I:** Steel, insulated

**Deck Description:** Min. 22 gauge, grade 80, Type B steel deck attached 6" o.c. to steel supports spaced 6 ft. o.c. using Traxx/5 screws. Deck side laps are attached 30" o.c. using Traxx/1 screws.

**System Type C(2):** Insulation is mechanically attached to roof deck. Membrane subsequently fully adhered to insulation.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Thermal Barrier:** Minimum ¼" Dens Deck® Roof Board, Dens Deck® Prime Roof Board, ½" (Optional) Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board or ¾" EnergyGuard™ Perlite Roof Insulation loose laid on steel deck.

One or more layers of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, Minimum 2" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
Securock® Gypsum-Fiber Roof Board Minimum 5/8" thick	2, 8	1:1.6 ft <sup>2</sup>

**Note: Base insulation is loose laid. Top layer of insulation is fastened through the base layer, the optional vapor retarder and thermal barrier (when present) into the steel deck; see top insulation layer for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Membrane:** EverGuard® TPO or EverGuard® Extreme® TPO fully adhered in EverGuard® #1121 Bonding Adhesive applied at a total rate of 2.0 gal./sq. per manufacturer's installation instructions. Half of the adhesive is applied to the substrate and the other half is applied to the back surface of the roof cover. The top surface of the membrane is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are heat welded with minimum 1-1/2" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

**Surfacing:** Chosen components must be applied in accordance with manufacturer's (Optional) application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** -82.5 psf. (See General limitation #7)



**Membrane Type:** TPO

**Deck Type 2I:** Steel, Insulated

**Deck Description:** Min. 22 gauge, Grade 33, Type B-WR steel deck is secured to 0.25 in. thick steel structural supports spaced 72 in. o.c. with Teks 5 fasteners spaced 6 in. o.c. The deck side laps fastened 24 in. o.c. with Stitch Teks 1 fasteners.

**System Type C(3):** Insulation is mechanically attached to roof deck. Membrane subsequently fully adhered or partially adhered to insulation.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Thermal Barrier:** Minimum 5/8" thick DensDeck® Roof Board, DensDeck® Prime Roof Board, 1/2" (Optional) Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board or 3/4" EnergyGuard™ Perlite Roof Insulation loose laid on steel deck.

One or more layers of the following insulations.

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation Minimum 1.5" thick</b>	N/A	N/A
<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>Securock® Gypsum-Fiber Roof Board Minimum 1/4" thick</b>	1, 2, 8, 9, 12	1:1.78 ft <sup>2</sup>

**Note: Base insulation is loose laid. Top layer of insulation is fastened through the base layer, optional thermal barrier (when present) into the steel deck; see top insulation layer for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Membrane:** EverGuard® TPO or EverGuard® Extreme® TPO fully adhered in EverGuard® #1121 Bonding Adhesive applied at a total rate of 1.2 – 1.67 gal./sq. per manufacturer's installation instructions. Half of the adhesive is applied to the substrate and the other half is applied to the back surface of the roof cover. The top surface of the membrane is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be a minimum 2" for hand welding.

OR

EverGuard® TPO or EverGuard® Extreme® TPO fully adhered in EverGuard® Low VOC TPO Bonding Adhesive applied at a total rate of 0.91 gal./sq. per manufacturer's installation instructions. Half of the adhesive is applied to the substrate and the other half is applied to the back surface of the roof cover. The top surface of the membrane is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO or EverGuard® Extreme® TPO fully adhered in EverGuard® WB181 Bonding Adhesive applied at a total rate of 0.83gal./sq. per manufacturer's installation instructions. One quarter of the adhesive is applied to the back of the roof cover and three quarters of the adhesive is applied to the substrate. The top surface of the membrane is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered in GAF 2-Part Roofing Adhesive applied in a spatter pattern at 3.75 lbs./sq. per manufacturer's installation instructions. The top surface of the membrane is rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra partially adhered in LRF Adhesive M or LRF Adhesive O applied in 0.75 - 1.0 in. wide ribbons spaced 12 in. o.c. per manufacturer's installation instructions. The top surface of the membrane is rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1-1/2" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered with EverGuard WB 181 Bonding Adhesive applied at a total rate of 0.83 – 1.0 gal./sq. All of the adhesive is applied to the substrate and the membrane is installed into the wet adhesive as soon as practical (do not allow adhesive to string or dry). The top surface of the membrane is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

**Surfacing:  
(Optional)**

**Chosen components must be applied in accordance with manufacturer's application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.**

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** -52.5 psf. (See General limitation #7)

**Membrane Type:** TPO

**Deck Type 2I:** Steel, Insulated

**Deck Description:** Min. 22 gauge, Grade 33, Type B-WR steel deck is secured to minimum 0.25 in. thick steel structural supports spaced, maximum 72 in. o.c. with Tek 5 fasteners spaced 6 in. o.c. at each bearing. The deck side laps are fastened 24 in. o.c. with Stitch Tek 1 fasteners.

**System Type C(4):** Insulation is mechanically attached to roof deck. Membrane subsequently fully adhered to insulation.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Thermal Barrier:** Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime® Roof Board, 1/2" (Optional) Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board or 3/4" EnergyGuard™ Perlite Roof Insulation loose laid on steel deck.

One or more layers of the following insulations.

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation Minimum 1.5" thick</b>	<b>N/A</b>	<b>N/A</b>
<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>Structodek® High Density Fiber Board Roof Insulation Minimum 1/2" thick</b>	<b>1, 8, 9, 10, 14</b>	<b>1:1 ft<sup>2</sup></b>

**Note: Base insulation is loose laid. Top layer of insulation is fastened through the base layer, the optional thermal barrier (when present) into the steel deck; see top insulation layer for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Membrane:** EverGuard® TPO or EverGuard® Extreme® TPO fully adhered in EverGuard® #1121 Bonding Adhesive applied at a total rate of 1.67 gal./sq. per manufacturer's installation instructions. Half of the adhesive is applied to the substrate and the other half is applied to the back surface of the roof cover. The top surface of the membrane is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.  
OR

EverGuard® TPO or EverGuard® Extreme® TPO fully adhered in EverGuard® WB181 Bonding Adhesive applied at a total rate of 0.84 – 1.0 gal./sq. per manufacturer's installation instructions. One quarter of the adhesive is applied to the back of the roof cover and three quarters of the adhesive is applied to the substrate. The top surface of the membrane is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

**Surfacing:  
(Optional)** **Chosen components must be applied in accordance with manufacturer's application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.**

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** -67.5 psf. (See General limitation #7)

**Membrane Type:** TPO

**Deck Type 2I:** Steel, Insulated

**Deck Description:** Min. 22 gauge, Grade 33, Type B-WR steel deck secured to minimum 0.25 in. thick steel structural supports spaced, maximum 72 in. on center with ICH TRAXX/5, ICH TRAXX/4, Teks 4 or Teks 5 fasteners. The deck is fastened to the structural steel supports with fasteners applied 6" o.c. The deck side laps are fastened 24" o.c. with ICH TAXX/1 or Stitch Teks 1 fasteners.

**System Type C(5):** Insulation is mechanically attached to roof deck. Membrane subsequently fully adhered to insulation.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Thermal Barrier:** Min. 1/4" thick DensDeck® Roof Board, DensDeck® Prime® Roof Board, min. 1/2" Securock® Gypsum-Fiber Roof Board, Securock Glass-Mat Roof Board or min. 3/4" thick EnergyGuard™ Perlite Roof Insulation, loose laid.

**(Optional)**

One or more layers of the following insulations (max 12 inches).

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, Minimum 1.5" thick</b>	N/A	N/A
<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>DensDeck® Prime® Roof Board Minimum 1/4" thick</b>	1, 2, 8, 9, 11	1: 1.45 ft <sup>2</sup>

**Note: Base insulation is loose laid. Top layer of insulation is fastened through the base layer, the optional thermal barrier (when present) and into the steel deck; see top layer insulation for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Membrane:** EverGuard® TPO or EverGuard® Extreme® TPO fully adhered in EverGuard® WB 181 Bonding Adhesive applied at a total rate of 0.84 gal./sq. per manufacturer's installation instructions. One quarter of the adhesive is applied to the back of the roof cover and three quarters of the adhesive is applied to the substrate. The top surface of the membrane is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO or EverGuard Extreme® TPO fully adhered in EverGuard® #1121 Bonding Adhesive applied at a total rate of 1.67 gal./sq. per manufacturer's installation instructions. One half of the adhesive is applied to the back of the roof cover and one half of the adhesive is applied to the substrate. The top surface of the membrane is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are heat welded with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO or EverGuard Extreme® TPO fully adhered in EverGuard® Low VOC TPO Bonding Adhesive applied at a total rate of 0.91 gal./sq. per manufacturer's installation instructions. One half of the adhesive is applied to the substrate and the other half is applied to the back surface of the roof cover. The top surface of the membrane is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered with EverGuard WB 181 Bonding Adhesive applied at total rate of 0.83 – 1.0 gal./sq. per manufacturer's installation instructions. All of the adhesive is applied to the substrate and the membrane is installed into the wet adhesive as soon as practical (do not allow adhesive to string or dry). The top surface of the membrane is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

**Surfacing:  
(Optional)**

**Chosen components must be applied in accordance with manufacturer's application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.**

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** -52.5 psf. (See General limitation #7)



**Membrane Type:** TPO  
**Deck Type 2I:** Steel, insulated  
**Deck Description:** Min. 22 gauge, 33 ksi, steel deck.  
**System Type C(6):** Insulation is mechanically attached to roof deck. Membrane subsequently fully adhered to insulation.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Thermal Barrier:** Minimum ¼" DensDeck® Roof Board, DensDeck® Prime Roof Board, ½"  
**(Optional)** Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board or minimum ¾" EnergyGuard™ Perlite Roof Insulation loose laid on steel deck.

One or more layers of the following insulations.

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft²</b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation Minimum 1" thick</b>	<b>N/A</b>	<b>N/A</b>
<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft²</b>
<b>DensDeck® Prime® Roof Board, SECUROCK® Gypsum-Fiber Roof Board Minimum ¼" thick</b>	<b>1, 2, 8, 9, 11, 12</b>	<b>1: 3.2 ft²</b>
<b>SECUROCK® Gypsum-Fiber Roof Board Minimum 3/8" thick</b>	<b>1, 2, 8, 9, 11, 12</b>	<b>1: 4.0 ft²</b>

**Note: Base insulation is loose laid with a maximum thickness of 12 inches. Top layer of insulation is fastened through the base layer, the optional thermal barrier (when present) and into the steel deck; see top insulation layer for fasteners and density. Insulation panels listed are 48 x 96 in.; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Membrane:** EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered in LRF Adhesive M or LRF Adhesive O applied in 0.75 - 1.0 in. wide ribbons spaced 4 in. o.c. for full coverage per manufacturer's installation instructions. The top surface of the roof cover is rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1-1/2" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.  
OR  
EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered in GAF 2-Part Roofing Adhesive applied in a spatter pattern at 3.75 lbs./sq. per manufacturer's installation instructions. The top surface of the roof cover is rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1-1/2" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.



OR

EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered with EverGuard WB 181 Bonding Adhesive applied at total rate of 0.84 – 1.0 gal./sq. per manufacturer's installation instructions. All of the adhesive is applied to the substrate and the membrane is installed into the wet adhesive as soon as practical (do not allow adhesive to string or dry). The top surface of the membrane is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat weld for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO or EverGuard® Extreme® TPO fully adhered in EverGuard® #1121 Bonding Adhesive applied at a total rate of 1.67 gal./sq. per manufacturer's installation instructions. One half of the adhesive is applied to the back of the roof cover and one half of the adhesive is applied to the substrate. The top surface of the membrane is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO or EverGuard® Extreme® TPO fully adhered in EverGuard® TPO Low VOC Bonding Adhesive applied at a total rate of 0.91 gal./sq. per manufacturer's installation instructions. One half of the adhesive is applied to the back of the roof cover and one half of the adhesive is applied to the substrate. The top surface of the membrane is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO or EverGuard® Extreme® TPO fully adhered in EverGuard® WB 181 Bonding Adhesive applied at a total rate of 0.84 – 1.0 gal./sq. per manufacturer's installation instructions. One quarter of the adhesive is applied to the back of the roof cover and three quarters of the adhesive is applied to the substrate. The top surface of the membrane is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

**Surfacing:** Chosen components must be applied in accordance with manufacturer's  
**(Optional)** application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** -45 psf. (See General Limitation #9)

**Membrane Type:** TPO

**Deck Type 2I:** Steel, insulated

**Deck Description:** Min. 22 gauge, Grade 33, Type B-WR steel deck secured to 0.25 thick structural supports spaced 72 in. o.c. using Tek 4, Tek 5, ICH Traxx/4 or ICH Traxx/5 screws spaced 6 in. o.c. and with side laps secured with ICH Traxx/1 or Stitch Tek 1 screws spaced 24 in. o.c.

**System Type C(7):** Insulation is mechanically attached to roof deck. Membrane subsequently fully adhered to insulation.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Thermal Barrier:** Minimum 5/8" DensDeck® Roof Board, DensDeck® Prime® Roof Board, (Optional) DensDeck® DuraGuard® Roof Board, 1/2" Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board or 3/4" EnergyGuard™ Perlite Roof Insulation loose laid on steel deck.

One or more layers of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
Securock® Gypsum-Fiber Roof Board Minimum 3/8" thick	1, 2, 9, 10, 11, 12	1:1.3 ft <sup>2</sup>

**Note:** Base insulation is loose laid with a maximum thickness of 12 inches. Top layer of insulation is fastened through the base layer, the optional thermal barrier (when present) into the steel deck; see top insulation layer for fasteners and density. Insulation panels listed are 48 x 96 in.; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Membrane:** EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered in LRF Adhesive M or LRF Adhesive O applied in 0.75 - 1.0 in. wide ribbons spaced 4 in. o.c. for full coverage per manufacturer's installation instructions. The top surface of the membrane is rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1-1/2" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.  
OR

**Membrane:** EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered in GAF 2-Part Roofing Adhesive applied in a spatter pattern at 3.75 lbs./sq. per manufacturer's installation instructions. The top surface of the membrane is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1-1/2" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO or EverGuard® Extreme® TPO fully adhered in EverGuard® #1121 Bonding Adhesive applied at a total rate of 1.67 gal./sq. per manufacturer's installation instructions. One half of the adhesive is applied to the back of the roof cover and one half of the adhesive is applied to the substrate. The top surface of the membrane is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO or EverGuard® Extreme® TPO fully adhered in EverGuard® Low VOC TPO Bonding Adhesive applied at a total rate of 0.91 gal./sq. per manufacturer's installation instructions. Half of the adhesive is applied to the substrate and the other half is applied to the back surface of the roof cover. The top surface of the membrane is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

**Surfacing:** **Chosen components must be applied in accordance with manufacturer's application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.**

**(Optional)**

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** -67.5 psf. (See General limitation #7)

**Membrane Type:** TPO

**Deck Type 2I:** Steel, insulated

**Deck Description:** Min. 22 gauge, Grade 33, Type B-WR steel deck secured to minimum 0.25 in. thick structural supports spaced maximum 72 in. o.c. using Tek 4, Tek 5, ICH Traxx/4 or ICH Traxx/5 screws spaced 6 in. o.c. and with side laps secured with ICH Traxx/1 or Stitch Tek 1 screws spaced 24 in. o.c.

**System Type C(8):** Insulation is mechanically attached to roof deck. Membrane subsequently fully adhered to insulation.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Thermal Barrier:** Min. 1/4" DensDeck® Roof Board, 1/2" Securock® Gypsum-Fiber Roof Board, (Optional) Securock® Glass-Mat Roof Board or 3/4" EnergyGuard™ Perlite Roof Insulation loose laid on steel deck.

One or more layers of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation Minimum 1.5" thick	1, 2, 9, 10, 11, 12 14	1:1.3 ft <sup>2</sup>

**Note:** Base insulation is loose laid with a maximum thickness of 12 inches. Top layer of insulation is fastened through the base layer, the optional thermal barrier (when present) into the steel deck; see top insulation layer for fasteners and density. Insulation panels listed are 48 x 96 in.; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Membrane:** EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered in LRF Adhesive M or LRF Adhesive O applied in 0.75 - 1.0 in. ribbons spaced 4 in. o.c. for full coverage per manufacturer's installation instructions. The top surface of the roof cover is rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered in GAF 2-Part Roofing Adhesive applied in a spatter pattern at 3.75 lbs./sq. per manufacturer's installation instructions. The top surface of the roof cover is rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

**Surfacing:** Chosen components must be applied in accordance with manufacturer's  
**(Optional)** application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** -60 psf. (See General limitation #7)

**Membrane Type:** TPO

**Deck Type 2I:** Steel, Insulated

**Deck Description:** Minimum 22 gauge, Grade 33, Type B-WR steel deck secured to minimum 0.25 in. thick structural supports spaced maximum 72 in. o.c. using Tek 4, Tek 5, ICH Traxx/4 or ICH Traxx/5 screws spaced 6 in. o.c. and with side laps secured with ICH Traxx/1 or Stitch Tek 1 screws spaced at 24 in. o.c.

**System Type C(9):** Insulation is mechanically attached to roof deck. Membrane is subsequently partially adhered to insulation.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

One or more layers of the following insulations.

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation Minimum 1.5" thick</b>	<b>1, 2, 9, 10, 11, 12, 14</b>	<b>1:1.33 ft<sup>2</sup></b>

**Note: Insulation shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per boards shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Membrane:** EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra partially adhered in LRF Adhesive M or LRF Adhesive O applied in 0.75 - 1.0 in. wide ribbons spaced 12 in. o.c. per manufacturer's installation instructions. The top surface of the membrane is rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1-1/2" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

**Surfacing:  
(Optional)** **Chosen components must be applied in accordance with manufacturer's application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.**

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** -60 psf. (See General limitation #7)



**Membrane Type:** TPO

**Deck Type 2I:** Steel, insulated

**Deck Description:** Minimum 20 gauge, 33 ksi, Type B, G-90 steel deck secured to structural supports spaced maximum 84 in. o.c. with 5/8" diameter puddle welds spaced maximum 6 in. o.c. The deck side laps are secured with 1/4-14 x 7/8" HWH spaced maximum 24 in. o.c.

**System Type C(10):** Insulation is mechanically secured to the roof deck. Membrane is subsequently fully adhered to the insulation.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

One or more layers of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation Minimum 2" thick	1, 2, 8, 9, 10, 11, 12, 14	1:1.6 ft <sup>2</sup>

**Note: Insulation shall be attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Membrane:** EverGuard® TPO or EverGuard® Extreme® TPO fully adhered with EverGuard® #1121 Bonding Adhesive applied at a total rate of 1.67 gal./sq. per manufacturer's installation instructions. One half of the adhesive is applied to the back of the roof cover and one half of the adhesive is applied to the substrate. The top surface of the roof cover is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO or EverGuard® Extreme® TPO fully adhered with EverGuard® Low VOC TPO Bonding Adhesive applied at a total rate of 0.91 gal./sq. per manufacturer's installation instructions. Half of the adhesive is applied to the substrate and the other half is applied to the back surface of the roof cover. The top surface of the roof cover is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR



**(Only for use with EnergyGuard™ Polyiso Insulation)** EverGuard® TPO or EverGuard® Extreme® TPO fully adhered with EverGuard® WB 181 Bonding Adhesive applied at a total rate of 0.83 – 1.0 gal./sq. per manufacturer's installation instructions. Three-fourths of the adhesive is applied to the substrate and the other one-fourth is applied to the back surface of the roof cover. The top surface of the roof cover is broomed or rolled per manufacturer's installation instructions after adhering the membrane to the substrate to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered with GAF 2-Part Roofing Adhesive applied in a spatter pattern at 3.75 lbs./sq. per manufacturer's installation instructions. The top surface of the roof cover is rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered with LRF Adhesive M or LRF Adhesive O applied in 0.75 - 1.0 in. wide ribbons spaced 4 in. o.c. for full coverage per manufacturer's installation instructions. The top surface of the roof cover is rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

**(Only for use with EnergyGuard™ Polyiso Insulation)** EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered with EverGuard® WB 181 Bonding Adhesive applied at a total rate of 0.83 – 1.0 gal./sq. per manufacturer's installation instructions. All of the adhesive is applied to the substrate and the membrane is rolled into the wet adhesive as soon as practical (do not allow adhesive to string or dry). The top surface of the roof cover is broomed or rolled per manufacturer's installation instructions to ensure complete bonding. The minimum 3" wide membrane side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

**Surfacing:** Chosen components must be applied in accordance with manufacturer's  
**(Optional)** application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** -67.5 psf. (See General limitation #7)



**Membrane Type:** TPO

**Deck Type 2I:** Steel, insulated

**Deck Description:** Minimum 20 gauge, 33 ksi, Type B, G-90 steel deck secured to structural supports spaced maximum 84 in. o.c. with 5/8" diameter puddle welds spaced maximum 6 in. o.c. The deck side laps are secured with 1/4-14 x 7/8" HWH spaced maximum 24 in. o.c.

**System Type C(11):** Insulation is mechanically attached to roof deck. Membrane subsequently fully adhered to insulation.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

One or more layers of the following insulations.

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, Minimum 1" thick</b>	N/A	N/A
<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>Securock® Gypsum-Fiber Roof Board Minimum 1/4" thick</b>	1, 2, 9, 11	1:1.33 ft <sup>2</sup>

**Note: All layers shall be simultaneously fastened; see top layer above for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Membrane:** EverGuard® TPO or EverGuard® Extreme® TPO fully adhered with EverGuard® #1121 Bonding Adhesive applied at a total rate of 1.67 gal./sq. per manufacturer's installation instructions. Half of the adhesive is applied to the back of the roof cover and one half of the adhesive is applied to the substrate. Broom or roll the top surface of the membrane per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" wide for hand welding.

OR

EverGuard® TPO or EverGuard® Extreme® TPO fully adhered with EverGuard® Low VOC TPO Bonding Adhesive applied at a total rate of 0.91 gal./sq. per manufacturer's installation instructions. Half of the adhesive is applied to the substrate and the other half is applied to the back surface of the roof cover. Broom or roll the top surface of the membrane per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" wide for hand welding.

OR

EverGuard® TPO or EverGuard® Extreme® TPO fully adhered with EverGuard® WB 181 Bonding Adhesive applied at a total rate of 0.83 – 1.0 gal./sq. per manufacturer's installation instructions. Three-fourths of the adhesive is applied to the substrate and the other one-fourth is applied to the back surface of the roof cover. Broom or roll the top surface of the membrane per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" wide for hand welding.

OR

EverGuard® TPO FB Ultra or EverGuard Extreme® TPO FB Ultra fully adhered with GAF 2-Part Roofing Adhesive applied in a spatter pattern at 3.75 lbs./sq. per manufacturer's instructions. Roll the top surface of the membrane per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" wide for hand welding

OR

EverGuard® TPO FB Ultra or EverGuard Extreme® TPO FB Ultra fully adhered with LRF Adhesive M or LRF Adhesive O applied per manufacturer's instructions in 0.75 - 1.0 in. wide ribbons spaced 4 in. o.c. for full coverage. Roll the top surface of the membrane per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra adhered with EverGuard® WB181 Bonding Adhesive applied at a rate of 0.84 gal./sq. to 1.0 gal./sq. per manufacturer's installation instructions. All of the adhesive is applied to the substrate and the membrane is installed into the wet adhesive as soon as practical (do not allow adhesive to string or dry). Broom or roll the top surface of the membrane per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

**Surfacing:  
(Optional)** **Chosen components must be applied in accordance with manufacturer's application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.**

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** -60 psf. (See General limitation #7)

**Membrane Type:** TPO

**Deck Type 2I:** Steel, insulated

**Deck Description:** Minimum 20 gauge, 33 ksi, Type B, G-90 steel deck secured to structural supports spaced maximum 84 in. o.c. with 5/8" diameter puddle welds spaced maximum 6 in. o.c. The deck side laps are secured with 1/4-14 x 7/8" HWH spaced maximum 24 in. o.c.

**System Type C(12):** Insulation is mechanically attached to roof deck. Membrane subsequently fully adhered to insulation.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

One or more layers of the following insulations.

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, Minimum 1" thick</b>	N/A	N/A
<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>Securock® Gypsum-Fiber Roof Board Minimum 3/8" thick</b>	1, 2, 9, 11	1:1.45 ft <sup>2</sup>

**Note: All layers shall be simultaneously fastened; see top layer above for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Membrane:** EverGuard® TPO or EverGuard® Extreme® TPO fully adhered with EverGuard® #1121 Bonding Adhesive applied at a total rate of 1.67 gal./sq. per manufacturer's installation instructions. Half of the adhesive is applied to the back of the roof cover and one half of the adhesive is applied to the substrate. Broom or roll the top surface of the membrane per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO or EverGuard® Extreme® TPO fully adhered with EverGuard® Low VOC TPO Bonding Adhesive applied at a total rate of 0.91 gal./sq. per manufacturer's installation instructions. Half of the adhesive is applied to the substrate and the other half is applied to the back surface of the roof cover. Broom or roll the top surface of the membrane per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" wide for hand welding.

OR

EverGuard® TPO or EverGuard® Extreme® TPO fully adhered with EverGuard® WB 181 Bonding Adhesive applied at a total rate of 0.83 – 1.0 gal./sq. per manufacturer's installation instructions. Three-fourths of the adhesive is applied to the substrate and the other one-fourth is applied to the back surface of the roof cover. Broom or roll the top surface of the membrane per manufacturer's installation to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" wide for hand welding.

OR

EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered with GAF 2-Part Roofing Adhesive applied in a spatter pattern at 3.75 lbs./sq. per manufacturer's instructions. Roll the top surface of the membrane per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered with LRF Adhesive M or LRF Adhesive O applied per manufacturer's instructions in 0.75 -1.0 in. wide ribbons spaced 4 in. o.c. for full coverage. Roll the top surface of the membrane per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" wide for hand welding.

OR

EverGuard® TPO FB Ultra or EverGuard Extreme® TPO FB Ultra adhered with EverGuard® WB181 Bonding Adhesive applied at a total rate of 0.84 gal./sq. to 1.0 gal./sq. per manufacturer's installation instructions. All of the adhesive is applied to the substrate and the membrane is installed into the wet adhesive as soon as practical (do not allow adhesive to string or dry). Broom or roll the top surface of the membrane per manufacturer's installation to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

**Surfacing:  
(Optional)**      **Chosen components must be applied in accordance with manufacturer's application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.**

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design  
Pressure:**      -75 psf. (See General limitation #7)

**Membrane Type:** TPO

**Deck Type 2I:** Steel, insulated

**Deck Description:** Minimum 22 gauge, 33 ksi, Type B, G-90 steel deck secured to structural supports spaced maximum 72 in. o.c. with 5/8" diameter puddle welds spaced maximum 6 in. o.c. The deck side laps are secured with 1/4-14 x 7/8" HWH spaced maximum 24 in. o.c.

**System Type C(13):** Insulation is mechanically attached to roof deck. Membrane subsequently fully adhered to insulation.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

One or more layers of the following insulations.

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation Minimum 1" thick</b>	N/A	N/A
<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>Dens Deck® Prime Roof Board, Securock® Gypsum-Fiber Roof Board Minimum 1/4" thick</b>	1, 2, 9, 11	1:1.45 ft <sup>2</sup>

**Note: All layers shall be simultaneously fastened; see top layer above for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Membrane:** EverGuard® TPO or EverGuard® Extreme® TPO fully adhered with EverGuard® WB181 Bonding Adhesive applied at a total rate of 0.84 gal./sq. to 1.0 gal./sq. per manufacturer's installation instructions. One fourth of the adhesive is applied to the underside of the roof cover and three fourths is applied to the substrate. Broom or roll the top surface of the membrane per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO or EverGuard® Extreme® TPO fully adhered with EverGuard® #1121 Bonding Adhesive applied at a total rate of 1.67 gal./sq. per manufacturer's installation instructions. Half of the adhesive is applied to the substrate and the other half is applied to the back surface of the roof cover. Broom or roll the top surface of the membrane per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO or EverGuard® Extreme® TPO fully adhered with EverGuard® Low VOC TPO Bonding Adhesive applied at a total rate of 0.91 gal./sq. per manufacturer's installation instructions. Half of the adhesive is applied to the substrate and the other half is applied to the back surface of the roof cover. Broom or roll the top surface of the membrane per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered with LRF Adhesive O or LRF Adhesive M applied per manufacturer's installation instructions in 0.75" – 1" wide ribbons spaced 4" o.c. for full coverage. Roll the top surface of the membrane per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered with EverGuard® WB181 Bonding Adhesive applied at a rate of 0.84 gal./sq. to 1.0 gal./sq. per manufacturer's installation instructions. All of the adhesive is applied to the substrate and the membrane is installed into the wet adhesive as soon as practical (do not allow adhesive to string or dry). Broom or roll the top surface of the membrane per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

**(Only for use with a SECUROCK® Gypsum-Fiber Roof Board top insulation layer)** EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered with GAF 2-Part Roofing Adhesive applied per manufacturer's installation instructions in a spatter pattern at 3.75 lbs./sq. Roll the top surface of the membrane per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

**Surfacing:  
(Optional)** **Chosen components must be applied in accordance with manufacturer's application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.**

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** -60 psf. (See General limitation #7)

**Membrane Type:** Single Ply, Thermoplastic, TPO

**Deck Type 2I:** Steel, Insulated

**Deck Description:** Minimum 22 gauge, 33 ksi, Type B, G-90 steel deck secured to supports spaced at maximum 72" o.c. using minimum 5/8" diameter puddle welds spaced maximum 6" o.c. The deck side laps are fastened with 1/4-14x7/8 HWH spaced maximum 24" o.c. along each side lap.

**System Type C(14):** Insulation is mechanically attached to roof deck. Membrane is subsequently fully adhered to insulation.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

One or more layers of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation Minimum 2" thick	1, 2, 8, 9, 10, 11, 12, 14	1.78 ft <sup>2</sup>

**Note: Insulation shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).**

**Membrane:** EverGuard® TPO or EverGuard® Extreme® TPO fully adhered with EverGuard® #1121 Bonding Adhesive applied at a total rate of 1.67 gal./sq. per manufacturer's installation instructions. One half of the adhesive is applied to the back of the roof cover and one half of the adhesive is applied to the substrate. Broom or roll the top surface of the membrane per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO or EverGuard® Extreme® TPO fully adhered with EverGuard® Low VOC TPO Bonding Adhesive applied at a total rate of 0.91 gal./sq. per manufacturer's installation instructions. Half of the adhesive is applied to the substrate and the other half is applied to the back surface of the roof cover. Broom or roll the top surface of the membrane per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR



**(Only for use with EnergyGuard™ Polyiso Insulation or EnergyGuard™ Ultra Polyiso Insulation)** EverGuard® TPO or EverGuard® Extreme® TPO fully adhered with EverGuard® WB 181 Bonding Adhesive applied at a total rate of 0.83 – 1.0 gal./sq. per manufacturer's installation instructions. Three-fourths of the adhesive is applied to the substrate and the other one-fourth is applied to the back surface of the roof cover. Broom or roll the top surface of the membrane per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered with GAF 2-Part Roofing Adhesive applied in a spatter pattern at 3.75 lbs./sq. per manufacturer's installation instructions. Roll the top surface of the membrane per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

OR

EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered with LRF Adhesive M or LRF Adhesive O applied in 0.75 - 1.0 in. wide ribbons spaced 4 in. o.c. for full coverage per manufacturer's installation instructions. Roll the top surface of the membrane per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" wide for hand welding.

OR

**(Only for use with EnergyGuard™ Polyiso Insulation or EnergyGuard™ Ultra Polyiso Insulation)** EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra fully adhered with EverGuard WB 181 Bonding Adhesive applied at a total rate of 0.83 – 1.0 gal./sq. per manufacturer's installation instructions. All of the adhesive is applied to the substrate and the membrane is rolled into the wet adhesive as soon as practical (do not allow adhesive to string or dry). Broom or roll the top surface of the membrane per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

**Surfacing:** Chosen components must be applied in accordance with manufacturer's  
**(Optional)** application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** -60 psf. (See General Limitation #7)

**Membrane Type:** Single Ply, Thermoplastic, TPO

**Deck Type 2I:** Steel, Insulated

**Deck Description:** Minimum 22 gauge, 33 ksi, Type B, G-90 steel deck secured to supports spaced at maximum 72" o.c. using minimum 5/8" diameter puddle welds spaced maximum 6" o.c. The deck side laps are fastened with 1/4-14x7/8 HWH spaced maximum 24" o.c. along each side lap.

**System Type C(15):** Insulation is mechanically attached to roof deck. Membrane is subsequently partially adhered to insulation.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

One or more layers of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation Minimum 2" thick	1, 2, 8, 9, 10, 11, 12, 14	1.78 ft <sup>2</sup>

**Note: Insulation shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).**

**Membrane:** EverGuard® TPO FB Ultra or EverGuard® Extreme® TPO FB Ultra is partially adhered to the insulation with LRF Adhesive O or LRF Adhesive M applied in 0.75 - 1.0 in. wide ribbons spaced 12 in. o.c. Roll the top surface of the membrane per manufacturer's installation instructions to ensure complete bonding. Membrane side laps are minimum 3" wide and sealed with minimum 1.5" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

**Surfacing:  
(Optional)** **Chosen components must be applied in accordance with manufacturer's application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.**

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** -52.5 psf. (See General Limitation #7)



**Membrane Type:** TPO

**Deck Type 2I:** Steel, Insulated

**Deck Description:** Min. 22 gauge, Grade 33, Type B-WR steel deck secured to supports spaced 6 ft. o.c. with ITW Buildex Corp Teks 5 screws with 0.75 in. washers spaced 6 in. o.c. and with side laps secured with ITW Buildex Corp Traxx/1 screws spaced 12 in.

**System Type C(16):** All layers of insulation are mechanically attached to roof deck. Membrane is subsequently adhered to stress plates used to fasten insulation layer.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Thermal Barrier:** Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime® Roof Board, (Optional) 1/2" Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board or 3/4" EnergyGuard™ Perlite Roof Insulation loose laid on steel deck.

One or more layers of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation Minimum 1.5" thick	See Membrane Section	See Membrane Section

**Note:** Insulation is preliminarily attached through the optional thermal barrier (when present) into the steel deck at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. The total insulation thickness must be greater than or equal to 2" when using Drill-Tec™ RhinoBond TPO XHD Tread Safe Plates. Please refer to Roofing application Standard RAS 117 for insulation attachment requirements.

**Membrane:** EverGuard® TPO or EverGuard Extreme® TPO mechanically attached to deck with Drill-Tec™ XHD Fasteners and Drill-Tec™ RhinoBond® TPO XHD Plates or Drill-Tec™ RhinoBond® TPO XHD Tread Safe Plates applied 6 in. o.c. in rows spaced maximum 72 in. o.c. fastened into the steel deck. The membrane is bonded to the plates in the field of the roof cover using the RhinoBond® tool per manufacturer's installation instructions. Weighted cooling magnets are placed over the plates after the bonding process for a minimum of 45 seconds. Minimum 2 in. laps heat welded with minimum 1.5 in. wide heat weld placed on the outside edge of the lap.

**Surfacing:** Chosen components must be applied according to manufacturer's application (Optional) instructions. Any coating, listed below, used as a surfacing, must be listed within a current NOA.

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** -67.5 psf. (See General limitation #7)



**Membrane Type:** TPO

**Deck Type 2:** Steel, Insulated

**Deck Description:** Min. 22 gauge, Grade 80, Type B-WR steel deck secured to supports spaced 6 ft. o.c. with two ITW Buildex Corp Teks 5 screws with 0.75 in. washers spaced 6 in. o.c. and with side laps secured with ITW Buildex Corp Traxx/1 screws spaced 12 in. o.c.

**System Type C(17):** All layers of insulation are mechanically attached to roof deck. Membrane is subsequently adhered to stress plates used to fasten insulation layer.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Thermal Barrier:** Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime® Roof Board, (Optional) 1/2" Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board or 3/4" EnergyGuard™ Perlite Roof Insulation loose laid on steel deck.

One or more layers of the following insulations.

<b>Base Insulation Layer(s)</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation Minimum 1.5" thick</b>	<b>See Membrane Section</b>	<b>See Membrane Section</b>
<b>(Optional) Top Insulation Layer</b>		
<b>Structodek® High Density Fiber Board Roof Insulation, EnergyGuard™ RH HD Polyiso Insulation, EnergyGuard™ HD Polyiso Insulation, EnergyGuard™ HD Plus Polyiso Insulation Minimum 0.5" thick</b>	<b>See Membrane Section</b>	<b>See Membrane Section</b>
<b>DensDeck® Roof Board, Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board Minimum 0.25" thick</b>	<b>See Membrane Section</b>	<b>See Membrane Section</b>

**Note:** Insulation is preliminarily attached through the optional thermal barrier (when present) into the steel deck at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft. and four fasteners for any insulation board having no dimension greater than 8 ft. A 5/8 in. diameter pilot hole must be drilled when using Drill-Tec™ RhinoBond® TPO XHD Tread Safe Plates with gypsum or wood fiber top insulation layers. The insulation thickness must be greater than or equal to 2" when using Drill-Tec™ RhinoBond TPO XHD Tread Safe Plates. Please refer to Roofing application Standard RAS 117 for insulation attachment requirements.

**Membrane:** EverGuard® TPO or EverGuard Extreme® TPO mechanically attached to deck with Drill-Tec™ XHD Fasteners and Drill-Tec™ RhinoBond® TPO XHD Plates or Drill-Tec™ RhinoBond® TPO XHD Tread Safe Plates applied 6 in. o.c. in rows spaced maximum 72 in. o.c. fastened into the steel deck. The membrane is bonded to the plates in the field of the roof cover using the RhinoBond® tool. Weighted cooling magnets are placed over the plates after the bonding process for a minimum of 45 seconds. Minimum 2 in. laps heat welded with minimum 1.5 in. wide heat weld placed on the outside edge of the lap.

**Surfacing:  
(Optional)** **Chosen components must be applied in accordance with manufacturer's application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.**

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** -82.5 psf. (See General limitation #7)

**Membrane Type:** TPO

**Deck Type 2:** Steel, Insulated

**Deck Description:** Min. 22 gauge, SS Grade 80, Type B steel deck secured to min. 0.25 in. thick structural supports spaced maximum 72 in. o.c. with ICH Traxx/5 fasteners spaced maximum 6 in. o.c. at each bottom rib. The deck side laps are secured with ICH Traxx/1 fasteners spaced maximum 24 in. o.c.

**System Type C(18):** All layers of insulation are mechanically attached to roof deck. Membrane is subsequently adhered to stress plates used to fasten insulation layer.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Thermal Barrier:** Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime® Roof Board, DensDeck® (Optional) DuraGuard® Roof Board, 1/2" Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board or 3/4" EnergyGuard™ Perlite Roof Insulation loose laid on steel deck.

One or more layers of the following insulations.

<b>Base Insulation Layer(s)</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ Tapered Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RA Tapered Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RH Tapered Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ RN Tapered Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation Minimum 1.5" thick</b>	<b>See Membrane Section</b>	<b>See Membrane Section</b>
<b>(Optional) Top Insulation Layer EnergyGuard™ HD Polyiso Insulation, EnergyGuard™ RH HD Polyiso Insulation, EnergyGuard™ HD Plus Polyiso Insulation, Structodek® High Density Fiberboard Roof Insulation Minimum 0.5" thick</b>	<b>See Membrane Section</b>	<b>See Membrane Section</b>
<b>DensDeck® Roof Board, Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board, Minimum 0.25" thick</b>	<b>See Membrane Section</b>	<b>See Membrane Section</b>

**Note:** Insulation layer is preliminarily attached through the optional thermal barrier (when present) into the steel deck Preliminary attachment is accomplished by the RhinoBond membrane fasteners applied as described below for membrane attachment. A 5/8 in. diameter pilot hole must be drilled when using Drill-Tec™ RhinoBond® TPO XHD Tread Safe Plates with gypsum or wood fiber cover boards. The total insulation thickness must be greater than or equal to 2" when using Drill-Tec RhinoBond TPO XHD Tread Safe Plates. Please refer to Roofing application Standard RAS 117 for insulation attachment requirements.

**Membrane:** EverGuard® TPO or EverGuard® Extreme® TPO mechanically attached to deck with Drill-Tec™ RhinoBond® TPO SXHD Plates, Drill-Tec™ RhinoBond® TPO XHD Plates or Drill-Tec™ RhinoBond® TPO XHD Tread Safe Plates with Drill-Tec™ SXHD Fasteners. Fasteners are applied on a 24 x 24 in. grid. The underside of the roof cover is bonded to the stress plates with the OMG RhinoBond® tool. Weighted cooling magnets are placed over the plates after the bonding process for a minimum of 45 seconds. Min. 3” wide lap and sealed with a minimum 1-1/2” heat weld for automatic machine welding. Weld width shall be a minimum 2” width for hand welding.

**Surfacing:** **Chosen components must be applied in accordance with manufacturer's**  
**(Optional)** **application instructions. Any coating listed below used as a surfacing must be**  
**listed within a current NOA.**

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer’s specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** -60 psf. (See General limitation #7)



**Membrane Type:** TPO

**Deck Type 2:** Steel, Insulated

**Deck Description:** Minimum 22 gauge, 33 ksi, Type B, G-90 steel deck secured to structural supports spaced maximum 72 in. o.c. with 5/8" diameter puddle welds spaced maximum 6 in. o.c. The deck side laps are secured with 1/4-14 x 7/8" HWH spaced maximum 24 in. o.c.

**System Type C(19):** All layers of insulation are mechanically attached to roof deck. Membrane is subsequently adhered to stress plates used to fasten insulation layer.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation Minimum 1" thick	See Membrane Section	See Membrane Section
Structodek® High Density Fiber Board Roof Insulation, EnergyGuard™ RH HD Polyiso Insulation, EnergyGuard™ HD Polyiso Insulation, EnergyGuard™ HD Plus Polyiso Insulation Minimum 0.5" thick	See Membrane Section	See Membrane Section
DensDeck® Roof Board, Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board Minimum 0.25" thick	See Membrane Section	See Membrane Section

**Note:** Preliminary attachment of the insulation is accomplished by the RhinoBond membrane fasteners installed as described below for membrane attachment. A 5/8 in. diameter pilot hole must be drilled when using Drill-Tec™ RhinoBond® TPO XHD Tread Safe Plates with gypsum or wood fiber cover boards. The total insulation thickness must be greater than or equal to 2.0 in. when using the Drill-Tec™ RhinoBond® TPO XHD Tread Safe Plates. Please refer to Roofing application Standard RAS 117 for insulation attachment requirements.

**Membrane:** EverGuard® TPO or EverGuard Extreme® TPO is mechanically attached to deck with Drill-Tec™ RhinoBond® TPO XHD Plates or Drill-Tec™ RhinoBond® TPO XHD Tread Safe Plates and Drill-Tec™ XHD Fasteners as described below for each membrane fastening option:

**Fastening Option #1:** 8 fasteners and plates applied per 48 x 96 in. board. The membrane is bonded to the stress plates with the OMG RhinoBond® tool per manufacturer's installation instructions. Weighted cooling magnets are placed over the plates after the bonding process for a minimum of 45 seconds. The minimum 3" wide membrane side laps are sealed with minimum 1-1/2" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

**Maximum Design Pressure: -60 psf. (See General limitation #7)**

**Fastening Option #2:** 12 fasteners and plates applied per 48 x 96 in. board. The membrane is bonded to the stress plates with the OMG RhinoBond® tool per manufacturer's installation instructions. Weighted cooling magnets are placed over the plates after the bonding process for a minimum of 45 seconds. The minimum 3" wide membrane side laps are sealed with minimum 1-1/2" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

***Maximum Design Pressure: -67.5 psf. (See General limitation #7)***

**Surfacing:  
(Optional)** **Chosen components must be applied in accordance with manufacturer's application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.**

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** See Fastening Options above.

**Membrane Type:** TPO

**Deck Type 2:** Steel, Insulated

**Deck Description:** Minimum 20 gauge, 33 ksi, Type B, G-90 steel deck secured to structural supports spaced maximum 84 in. o.c. with 5/8" diameter puddle welds spaced maximum 6 in. o.c. The deck side laps are secured with 1/4-14 x 7/8" HWH spaced maximum 24 in. o.c.

**System Type C(20):** All layers of insulation are mechanically attached to roof deck. Membrane is subsequently adhered to stress plates used to fasten insulation layer.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

One or more layers of any of the following insulations.

<b>Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation Minimum 1" thick</b>	<b>See Membrane Section</b>	<b>See Membrane Section</b>
<b>Structodek® High Density Fiber Board Roof Insulation, EnergyGuard™ RH HD Polyiso Insulation, EnergyGuard™ HD Polyiso Insulation, EnergyGuard™ HD Plus Polyiso Insulation Minimum 0.5" thick</b>	<b>See Membrane Section</b>	<b>See Membrane Section</b>
<b>DensDeck® Roof Board, Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board Minimum 0.25" thick</b>	<b>See Membrane Section</b>	<b>See Membrane Section</b>

**Note:** Preliminary attachment of the insulation is accomplished by the RhinoBond membrane fasteners installed as described below for membrane attachment. A 5/8 in. diameter pilot hole must be drilled when using Drill-Tec™ RhinoBond® TPO XHD Tread Safe Plates with gypsum or wood fiber cover boards. The total insulation thickness must be greater than or equal to 2.0 in. when using the Drill-Tec™ RhinoBond® TPO XHD Tread Safe Plates. Please refer to Roofing application Standard RAS 117 for insulation attachment requirements.

**Membrane:** EverGuard® TPO or EverGuard® Extreme® TPO is mechanically attached to deck with Drill-Tec™ RhinoBond® TPO XHD Plates or Drill-Tec™ RhinoBond® TPO XHD Tread Safe Plates and Drill-Tec™ XHD Fasteners applied at a rate of 8 fasteners per 48 x 96 in. board. The membrane is bonded to the stress plates with the OMG RhinoBond® tool per manufacturer's installation instructions. Weighted cooling magnets are placed over the plates after the bonding process for a minimum of 45 seconds. The minimum 3" wide membrane side laps are sealed with minimum 1-1/2" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

**Surfacing:  
(Optional)** Chosen components must be applied in accordance with manufacturer's application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** -52.5 psf. (General Limitation #7)



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**Membrane Type:** TPO

**Deck Type 2I:** Steel, Insulated

**Deck Description:** Minimum 22 ga., Grade 80, Type B steel deck secured to minimum 1/4" thick supports space maximum 6 ft. o.c. with ITW Buildex Traxx/4 or Traxx/5 spaced 6" o.c. Deck side laps are secured with ITW Buildex Traxx/1 fasteners spaced maximum 30" o.c.

**System Type D(1):** Insulation is loose laid with preliminary attachment to roof deck. Membrane is subsequently mechanically fastened through insulation to the roof deck.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Thermal Barrier:** Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime® Roof Board, (Optional) 1/2" Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board or 3/4" EnergyGuard™ Perlite Roof Insulation loose laid on steel deck.

One or more layers of the following insulations.

<b>Base Insulation Layer(s)</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation Minimum 1" thick</b>	N/A	N/A
<b>(Optional) Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Perlite Recover Board, Structodek® High Density Fiber Board Roof Insulation, EnergyGuard™ RH HD Polyiso Insulation, EnergyGuard™ HD Polyiso Insulation, EnergyGuard™ HD Plus Polyiso Insulation Minimum 0.5" thick</b>	N/A	N/A
<b>EnergyGuard™ Perlite Roof Insulation Minimum 0.75" thick</b>	N/A	N/A
<b>DensDeck® Roof Board, Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board Minimum 0.25" thick</b>	N/A	N/A

**Note:** Insulation is preliminarily attached through the optional thermal barrier (when present) into the steel deck at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Membrane:** EverGuard® TPO or EverGuard® Extreme® TPO attached through the preliminary attached insulation and into the steel deck as specified below.

**Fastening #1:** Membrane is mechanically attached using Drill-Tec™ XHD Fasteners and Drill-Tec™ 2-3/8" Barbed XHD Plates spaced 6" o.c. within minimum 5" wide laps. Laps are spaced at maximum 14.5" o.c. and sealed with a minimum 1.5" wide heat weld for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.

*(Maximum Design Pressure: -45 psf. See General Limitation #7)*

**Fastening #2:** Membrane is mechanically attached using Drill-Tec™ XHD Fasteners and Drill-Tec™ 2” Double Barbed XHD Plates spaced 6” o.c. within minimum 5” wide laps. Laps are spaced at maximum 14” o.c. and sealed with a minimum 5” wide heat weld.

*(Maximum Design Pressure: –67.5 psf. See General Limitation #7)*

**Surfacing:  
(Optional)** Chosen components must be applied in accordance with manufacturer's application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** See Fastening Options Above

**Membrane Type:** TPO

**Deck Type 2I:** Steel, Insulated

**Deck Description:** Minimum 22 ga., Grade 80, Type B steel deck secured to minimum 1/4" thick supports space maximum 6 ft. o.c. with ITW Buildex Traxx/5 spaced 6" o.c. Deck side laps are secured with ITW Buildex Traxx/1 fasteners spaced maximum 24" o.c.

**System Type D(2):** Insulation is loose laid with preliminary attachment to roof deck. Membrane is subsequently mechanically fastened through insulation to the roof deck.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Thermal Barrier:** Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime® Roof Board, (Optional) 1/2" Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board or 3/4" EnergyGuard™ Perlite Roof Insulation loose laid on steel deck.

One or more layers of the following insulations.

<b>Base Insulation Layer(s)</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation Minimum 1.5" thick</b>	N/A	N/A
<b>(Optional) Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Perlite Recover Board, Structodek® High Density Fiber Board Roof Insulation, EnergyGuard™ RH HD Polyiso Insulation, EnergyGuard™ HD Polyiso Insulation, EnergyGuard™ HD Plus Polyiso Insulation Minimum 0.5" thick</b>	N/A	N/A
<b>EnergyGuard™ Perlite Roof Insulation Minimum 0.75" thick</b>	N/A	N/A
<b>DensDeck® Roof Board, Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board Minimum 0.25" thick</b>	N/A	N/A

**Note:** Insulation is preliminarily attached through the optional thermal barrier (when present) into the steel deck at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Membrane:** EverGuard® TPO or EverGuard® Extreme® TPO attached through the preliminary attached insulation as specified below.

**Fastening #1:** Membrane is mechanically attached using Drill-Tec™ SXHD fasteners and Drill-Tec™ 2-3/4" Barbed SXHD Plates spaced 12" o.c. within minimum 5.5" wide laps. Laps are spaced at maximum 114.5" o.c. and sealed with a minimum 1.5" wide heat weld for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.

*(Maximum Design Pressure: -45 psf. See General Limitation #7)*

- Fastening #2:** Membrane is mechanically attached using Drill-Tec™ XHD Fasteners and Drill-Tec™ 2-3/8" Barbed XHD Plates spaced 6" o.c. within minimum 5" wide laps. Laps are spaced at maximum 114.5" o.c. and sealed with a minimum 1.6" wide heat weld. Weld width shall be a minimum 2" width for hand welding.  
*(Maximum Design Pressure: -52.5 psf. See General Limitation #7)*
- Fastening #3:** Membrane is mechanically attached using Drill-Tec™ XHD Fasteners and Drill-Tec™ 2-3/8" Barbed XHD Plates or Drill-Tec™ 2" Double Barbed XHD Plates spaced 6" o.c. within minimum 5" wide laps. Laps are spaced at maximum 115" o.c. and sealed with a minimum 1.5" wide heat weld for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.  
*(Maximum Design Pressure: -52.5 psf. See General Limitation #7)*
- Fastening #4:** Membrane is mechanically attached using Drill-Tec™ XHD Fasteners and Drill-Tec™ 2-3/4" Barbed SXHD Plates spaced 6" o.c. within minimum 6" wide laps. Laps are spaced at maximum 114" o.c. and sealed with a minimum 1.5" wide heat weld for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.  
*(Maximum Design Pressure: -60 psf. See General Limitation #7)*
- Fastening #7:** Membrane is mechanically attached using Drill-Tec™ XHD Fasteners and Drill-Tec™ 2" Double Barbed XHD Plates spaced 6" o.c. within minimum 5" wide laps. Laps are spaced at maximum 91.5" o.c. and sealed with a minimum 1.75" wide heat weld. Weld width shall be a minimum 2" width for hand welding.  
*(Maximum Design Pressure: -60 psf. See General Limitation #7)*
- Surfacing: (Optional)** **Chosen components must be applied in accordance with manufacturer's application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.**
1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
  2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
  3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.
- Maximum Design Pressure:** See Fastening Options Above



**Membrane Type:** TPO

**Deck Type 2:** Steel, Insulated

**Deck Description:** Min. 18-22 gauge, Grade 33, 1.5 in. deep, Type B-WR steel roof deck secured to min. 0.25 in. thick structural supports spaced maximum 72 in. o.c. with Tek 4, Tek 5, ICH Traxx/4 or ICH Traxx/5 fasteners spaced maximum 6 in. o.c. at the supports. The deck side laps are secured with Stitch Tek 1 or ICH Traxx/1 fasteners spaced a maximum 24 in. o.c.

**System Type D(3):** Insulation is loose laid with preliminary attachment to roof deck. Membrane is subsequently mechanically fastened through insulation to the roof deck.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Thermal Barrier:** Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime® Roof Board, DensDeck® (Optional) DuraGuard® Roof Board, 1/2" Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board or 3/4" EnergyGuard™ Perlite Roof Insulation loose laid on steel deck.

One or more layers of the following insulations.

<b>Base Insulation Layer(s)</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation Minimum 1.5" thick</b>	N/A	N/A
<b>Top Insulation Layer (Optional)</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Perlite Roof Insulation Minimum 0.75" thick</b>	N/A	N/A
<b>EnergyGuard™ Perlite Recover Board, Structodek® High Density Fiber Board Roof Insulation, EnergyGuard™ RH HD Polyiso Insulation, EnergyGuard™ HD Polyiso Insulation, EnergyGuard™ HD Plus Polyiso Insulation Minimum 0.5" thick</b>	N/A	N/A
<b>DensDeck® Roof Board, Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board Minimum 0.25" thick</b>	N/A	N/A

**Note:** Insulation is preliminarily attached through the optional thermal barrier (when present) into the steel deck at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. Please refer to Roofing application Standard RAS 117 for insulation attachment requirements.

**Membrane:** EverGuard® TPO or EverGuard Extreme® TPO mechanically attached to deck with Drill-Tec™ 2-3/4 in. Barbed SXHD Plates and Drill-Tec™ SXHD Fasteners spaced maximum 6 in. o.c. within laps spaced at maximum 114 in. o.c. Laps are minimum 6 in. wide and sealed with a minimum 1-1/2" heat weld for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.



**Surfacing:** Chosen components must be applied in accordance with manufacturer's  
**(Optional)** application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** -60 psf. (See General limitation #7)



**Membrane Type:** TPO

**Deck Type 2:** Steel, Insulated

**Deck Description:** Min. 18-22 gauge, Grade 33, 1.5 in. deep, Type B-WR steel roof deck secured to minimum 0.25 in. thick structural supports spaced maximum 72 in. o.c. with Teks 4, Teks 5, ICH Traxx/4 or ICH Traxx/5 fasteners spaced maximum 6 in. o.c. at the supports. The deck side laps are secured with Stitch Teks 1 or ICH Traxx/1 fasteners spaced maximum 24 in. o.c.

**System Type D(4):** Insulation is loose laid with preliminary attachment to roof deck. Membrane is subsequently mechanically fastened through insulation to the roof deck.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Thermal Barrier:** Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime® Roof Board, DensDeck® (Optional) DuraGuard® Roof Board, 1/2" Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board or 3/4" EnergyGuard™ Perlite Roof Insulation loose laid on steel deck.

One or more layers of the following insulations.

<b>Base Insulation Layer(s)</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation Minimum 1.5" thick</b>	N/A	N/A
<b>(Optional) Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Perlite Roof Insulation Minimum 0.75" thick</b>	N/A	N/A
<b>EnergyGuard™ Perlite Recover Board, Structodek® High Density Fiber Board Roof Insulation, EnergyGuard™ RH HD Polyiso Insulation, EnergyGuard™ HD Polyiso Insulation, EnergyGuard™ HD Plus Polyiso Insulation Minimum 0.5" thick</b>	N/A	N/A
<b>DensDeck® Roof Board, Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board Minimum 0.25" thick</b>	N/A	N/A

**Note:** Insulation layer is preliminarily attached through the optional thermal barrier (when present) into the steel deck at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. Please refer to Roofing application Standard RAS 117 for insulation attachment requirements.

**Membrane:** EverGuard® TPO or EverGuard Extreme® TPO mechanically attached to deck with Drill-Tec™ 2-3/8 in. Barbed XHD Plates or with the Drill-Tec™ Eyehook AccuSeam Plates and the Drill-Tec™ XHD Fasteners spaced maximum 6 in. o.c. within laps spaced at maximum 14 in. o.c. Laps are minimum 6 in. wide and sealed with a minimum 1-1/2" heat weld for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.

**Surfacing:** **Chosen components must be applied in accordance with manufacturer's application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.**  
**(Optional)**

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** -52.5 psf. (See General limitation #7)

**Membrane Type:** TPO

**Deck Type 2:** Steel, Insulated

**Deck Description:** Minimum 22 gauge, 33 ksi, Type B, G-90 steel deck secured to structural supports spaced maximum 72 in. o.c. with 5/8" diameter puddle welds spaced maximum 6 in. o.c. The deck side laps are secured with 1/4-14 x 7/8" HWH spaced maximum 24 in. o.c.

**System Type D(5):** All insulation is loose laid with preliminary attachment to roof deck. Membrane is subsequently mechanically fastened through insulation to the roof deck.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

One or more layers of any of the following insulations.

<b>Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation Minimum 1" thick</b>	N/A	N/A
<b>EnergyGuard™ Perlite Roof Insulation Minimum 0.75" thick</b>	N/A	N/A
<b>EnergyGuard™ Perlite Recover Board, Structodek® High Density Fiber Board Roof Insulation, EnergyGuard™ RH HD Polyiso Insulation, EnergyGuard™ HD Polyiso Insulation, EnergyGuard™ HD Plus Polyiso Insulation Minimum 0.5" thick</b>	N/A	N/A
<b>DensDeck® Roof Board, Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board Minimum 0.25" thick</b>	N/A	N/A

**Note:** All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft. and four fasteners for any insulation board having no dimension greater than 8 ft. Please refer to Roofing application Standard RAS 117 for insulation attachment requirements.

**Membrane:** EverGuard® TPO or EverGuard® Extreme® TPO mechanically attached to the deck per fastening options below. Membrane side laps are minimum 6 in. wide and sealed with minimum 1-1/2" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

**Fastening Option #1:** Membrane attached with Drill-Tec™ 2 in. Double Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates or Drill-Tec 2-3/8 in. Barbed XHD Plates and Drill-Tec™ XHD Fasteners spaced maximum 6 in. o.c. within laps spaced at maximum 114 in. o.c.

**Maximum Design Pressure: -52.5 psf. (See General Limitation #7)**

**Fastening Option #2:** Membrane attached with Drill-Tec 2-3/8 in. Barbed XHD Plates and Drill-Tec™ XHD Fasteners spaced maximum 6 in. o.c. within laps spaced at maximum 90 in. o.c.

***Maximum Design Pressure: -60 psf. (See General Limitation #7)***

**Fastening Option #3:** Membrane attached with Drill-Tec 2-3/4 in. Barbed SXHD Plates and Drill-Tec™ XHD Fasteners spaced maximum 6 in. o.c. within laps spaced at maximum 114 in. o.c.

***Maximum Design Pressure: -67.5 psf. (See General Limitation #7)***

**Maximum Design  
Pressure:**

See Fastening Options above.

**Membrane Type:** TPO

**Deck Type 2:** Steel, Insulated

**Deck Description:** Minimum 22 gauge, 80 ksi, Type B, G-90 steel deck secured to structural supports spaced maximum 72 in. o.c. with 5/8" diameter puddle welds spaced maximum 6 in. o.c. The deck side laps are secured with 1/4-14 x 7/8" HWH spaced maximum 24 in. o.c.

**System Type D(6):** All insulation is loose laid with preliminary attachment to roof deck. Membrane is subsequently mechanically fastened through insulation to the roof deck.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation Minimum 1" thick	N/A	N/A
EnergyGuard™ Perlite Roof Insulation Minimum 0.75" thick	N/A	N/A
EnergyGuard™ Perlite Recover Board, Structodek® High Density Fiber Board Roof Insulation, EnergyGuard™ RH HD Polyiso Insulation, EnergyGuard™ HD Polyiso Insulation, EnergyGuard™ HD Plus Polyiso Insulation Minimum 0.5" thick	N/A	N/A
DensDeck® Roof Board, Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board Minimum 0.25" thick	N/A	N/A

**Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft. and four fasteners for any insulation board having no dimension greater than 8 ft. Please refer to Roofing application Standard RAS 117 for insulation attachment requirements.**

**Membrane:** EverGuard® TPO or EverGuard Extreme® TPO mechanically attached to deck with Drill-Tec™ 2-3/4 in. Barbed SXHD Plates and Drill-Tec™ SXHD Fasteners spaced maximum 12 in. o.c. within membrane side laps spaced at maximum 14 in. o.c. The membrane side laps are minimum 6 in. wide and sealed with minimum 1-1/2" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

**Surfacing:  
(Optional)** **Chosen components must be applied in accordance with manufacturer's application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.**

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** -45 psf. (See General limitation #7)



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**Membrane Type:** TPO

**Deck Type 2:** Steel, Insulated

**Deck Description:** Minimum 20 gauge, 33 ksi, Type B, G-90 steel deck secured to structural supports spaced maximum 72 in. o.c. with 5/8" diameter puddle welds spaced maximum 6 in. o.c. The deck side laps are secured with 1/4-14 x 7/8" HWH spaced maximum 24 in. o.c.

**System Type D(7):** All insulation is loose laid with preliminary attachment to roof deck. Membrane is subsequently mechanically fastened through insulation to the roof deck.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

One or more layers of any of the following insulations.

<b>Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation Minimum 1" thick</b>	N/A	N/A
<b>EnergyGuard™ Perlite Roof Insulation Minimum 0.75" thick</b>	N/A	N/A
<b>EnergyGuard™ Perlite Recover Board, Structodek® High Density Fiber Board Roof Insulation, EnergyGuard™ RH HD Polyiso Insulation, EnergyGuard™ HD Polyiso Insulation, EnergyGuard™ HD Plus Polyiso Insulation Minimum 0.5" thick</b>	N/A	N/A
<b>DensDeck® Roof Board, Securock® Gypsum-Fiber Roof Board, Securock® Glass-Mat Roof Board Minimum 0.25" thick</b>		

**Note:** All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft. and four fasteners for any insulation board having no dimension greater than 8 ft. Please refer to Roofing application Standard RAS 117 for insulation attachment requirements.

**Membrane:** EverGuard® TPO or EverGuard Extreme® TPO mechanically attached to deck with Drill-Tec™ 2-3/4 in. Barbed SXHD Plate and Drill-Tec™ XHD Fasteners spaced maximum 12 in. o.c. within membrane side laps spaced at maximum 90 in. o.c. The membrane side laps are minimum 6 in. wide and sealed with minimum 1-1/2" wide heat welds for automatic machine welding. Weld width shall be minimum 2" for hand welding.

**Surfacing:  
(Optional)** **Chosen components must be applied in accordance with manufacturer's application instructions. Any coating listed below used as a surfacing must be listed within a current NOA.**

1. EverGuard® TPO Standing Seam Profile installed in accordance with manufacturer's specifications and applicable Building Codes.
2. Topcoat® Membrane applied at 1 to 1.5 gal./sq.
3. Topcoat® TPO Red Primer applied at 0.5 gal./sq. prior to applying Topcoat® Membrane.

**Maximum Design**

**Pressure:** -45 psf. (See General limitation #7)



## STEEL DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117 and/or RAS 137, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.

## GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.

**Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**

5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117 and/or RAS 137. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners).  
**(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

## END OF THIS ACCEPTANCE



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